Appl. No. 09/941,363 Amdt. dated August 4, 2003

Reply to Office Action of Apr. 14, 2003

Amendments to the Claims:

This list of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method of providing indicia on a substrate, the method comprising:

screen printing a substrate to make a decorated portion and a laser ablation portion on the substrate, wherein the laser ablation portion comprises a single layer of screen printed material having a thickness; and

laser ablating the laser ablation portion to provide the indicia on the substrate, wherein at least a portion of the thickness of the single layer of screen printed material is removed during the laser ablating, and none of the substrate underlying the single layer of screen printed material is removed or damaged during the laser ablating.

Claim 2 (currently amended): The method of Claim 1, further comprising firing the decorated and laser ablation portions after the laser ablating step.

Claim 3 (currently amended): The method of Claim 2, further comprising bending the substrate after the laser ablating step.

Claim 4 (currently amended): The method of Claim 3, wherein the substrate is bent during the firing step.

Claim 5 (currently amended): The method of Claim 1, further comprising bending the substrate after the screen printing step.

Claim 6 (currently amended): The method of Claim 1, further comprising bending the substrate after the laser ablating step.

Claim 7 (original): The method of Claim 1, wherein the indicia comprises serialization information.

Claim 8 (original): The method of Claim 1, wherein the indicia comprises manufacturing information.

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Reply to Office Action of Apr. 14, 2003

Claim 9 (original): The method of Claim 1, wherein the indicia comprises a serial number, bar code, patch code, logo or combination thereof.

Claim 10 (original): The method of Claim 1, wherein the substrate comprises glass.

Claim 11 (original): The method of Claim 1, wherein the substrate comprises automotive glass.

Claim 12 (original): The method of Claim 11, wherein the decorated portion comprises a border around a periphery of the automotive glass.

Claim 13 (original): The method of Claim 11, wherein the decorated portion comprises a part number of the automotive glass.

Claim 14 (original): The method of Claim 11, wherein the decorated portion comprises a logo.

Claim 15 (original): The method of Claim 11, wherein the indicia comprises manufacturing information of the automotive glass.

Claim 16 (original): The method of Claim 11, wherein the indicia comprises an automobile serial number.

Claim 17 (original): The method of Claim 1, wherein the screen printed material has a composition comprising from about 35 to about 75 weight percent glass frit, from about 5 to about 40 weight percent pigment, from zero to about 25 weight percent crystal seed powder, and from about 10 to about 40 weight percent printing medium.

Claim 18 (original): The method of Claim 1, wherein the screen printed material has a composition comprising from about 40 to about 60 weight percent glass frit, from about 10 to about 35 weight percent pigment, from zero to about 25 weight percent crystal seed powder, from zero to about 10 weight percent metal and/or metal oxide materials, and from about 15 to about 40 weight percent printing medium.



Reply to Office Action of Apr. 14, 2003

Claim 19 (currently amended): A method of providing indicia on automotive glass, the method comprising:

screen printing the automotive glass to make a decorated portion and a laser ablation portion on the automotive glass, wherein the laser ablation portion comprises a single layer of screen printed material having a thickness; and

laser ablating the laser ablation portion to provide indicia on the automotive glass, wherein at least a portion of the thickness of the single layer of screen printed material is removed during the laser ablating, and none of the automotive glass underlying the single layer of screen printed material is removed or damaged during the laser ablating.

Claim 20 (currently amended): The method of Claim 19, further comprising firing the decorated and laser ablation portions after the laser ablating step.

Claim 21 (currently amended): The method of Claim 20, further comprising bending the automotive glass after the laser ablating step.

Claim 22 (currently amended): The method of Claim 21, wherein the automotive glass is bent during the firing step.

Claim 23 (currently amended): The method of Claim 19, further comprising bending the automotive glass after the screen printing step.

Claim 24 (currently amended): The method of Claim 19, further comprising bending the automotive glass after the laser ablating step.

Claim 25 (original): The method of Claim 19, wherein the decorated portion comprises a border around a periphery of the automotive glass.

Claim 26 (original): The method of Claim 19, wherein the decorated portion comprises a part number of the automotive glass.

Claim 27 (original): The method of Claim 19, wherein the decorated portion comprises a logo.

Claim 28 (original): The method of Claim 19, wherein the indicia comprises a serial number, bar code, patch code, logo or combination thereof.

Claim 29 (original): The method of Claim 19, wherein the indicia comprises serialization information.



Reply to Office Action of Apr. 14, 2003

Claim 30 (original): The method of Claim 19, wherein the indicia comprises manufacturing information of the automotive glass.

Claim 31 (original): The method of Claim 19, wherein the indicia comprises an automobile serial number.

Claim 32 (original): The method of Claim 19, wherein the screen printed material has a composition comprising from about 35 to about 75 weight percent glass frit, from about 5 to about 40 weight percent pigment, from zero to about 25 weight percent crystal seed powder, and from about 10 to about 40 weight percent printing medium.

Claim 33 (original): The method of Claim 19, wherein the screen printed material has a composition comprising from about 40 to about 60 weight percent glass frit, from about 10 to about 35 weight percent pigment, from zero to about 25 weight percent crystal seed powder, from zero to about 10 weight percent metal and/or metal oxide materials, and from about 15 to about 40 weight percent printing medium.

Claim 34 (canceled): A screen printed substrate comprising a screen printed decorated portion and a screen printed laser ablation portion configured for subsequent laser ablation.

Claim 35 (canceled): The screen printed substrate of Claim 34, wherein the substrate comprises glass.

Claim 36 (canceled): The screen printed substrate of Claim 34, wherein the substrate comprises automotive glass.

Claim 37 (canceled): The screen printed substrate of Claim 36, wherein the decorated portion comprises a border around a periphery of the automotive glass.

Claim 38 (canceled): The screen printed substrate of Claim 36, wherein the decorated portion comprises a part number of the automotive glass.

Claim 39 (canceled): The screen printed substrate of Claim 36, wherein the decorated portion comprises a logo.

Claim 40 (canceled): The screen printed substrate of Claim 36, wherein the indicia comprises manufacturing information of the automotive glass.



Claim 41 (canceled): The screen printed substrate of Claim 36, wherein the indicia comprises an automobile serial number.

Claim 42 (canceled): A screen printed and laser ablated substrate comprising:

a screen printed decorated portion of the substrate; and a screen printed and laser ablated portion of the substrate.

Claim 43 (canceled): The screen printed and laser ablated substrate of Claim 42, wherein wherein the substrate comprises glass.

Claim 44 (canceled): The screen printed and laser ablated substrate of Claim 42, wherein the substrate comprises automotive glass.

Claim 45 (canceled): The screen printed and laser ablated substrate of Claim 44, wherein the decorated portion comprises a border around a periphery of the automotive glass.

Claim 46 (canceled): The screen printed and laser ablated substrate of Claim 44, wherein the decorated portion comprises a part number of the automotive glass.

Claim 47 (canceled): The screen printed and laser ablated substrate of Claim 44, wherein the decorated portion comprises a logo.

Claim 48 (canceled): The screen printed and laser ablated substrate of Claim 44, wherein the indicia comprises manufacturing information of the automotive glass.

Claim 49 (canceled): The screen printed and laser ablated substrate of Claim 44, wherein the indicia comprises an automobile serial number.

Claim 50 (canceled): A screen printing screen comprising a decoration portion and a separate laser ablation portion.

Claim 51 (canceled): The screen printing screen of Claim 50, wherein the decoration portion comprises a border around a periphery of the screen.

Claim 52 (canceled): The screen printing screen of Claim 50, wherein the decoration portion comprises an automotive glass part number.



Claim 53 (canceled): The screen printing screen of Claim 50, wherein the decoration portion comprises a logo.

Claim 54 (canceled): The screen printing screen of Claim 50, wherein the laser ablation portion is configured to provide indicia.

Claim 55 (canceled): The screen printing screen of Claim 54, wherein the indicia comprises a serial number, bar code, patch code, logo or combination thereof.

Claim 56 (canceled): The screen printing screen of Claim 54, wherein the indicia comprises automotive glass manufacturing information.

Claim 57 (canceled): The screen printing screen of Claim 54, wherein the indicia comprises an automotive serial number.

Claim 58 (new): The method of Claim 1, wherein the decorated portion and the laser ablation portion are separated from each other.

Claim 59 (new): The method of Claim 19, wherein the decorated portion and the laser ablation portion are separated from each other.

